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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/627,566	07/28/2000	Jonathan L. Goodwin	ATA-286 2331		
959 7.	590 01/14/2004		EXAMINER		
LAHIVE & COCKFIELD, LLP.			BUI, VY Q		
28 STATE STI BOSTON, MA			ART UNIT PAPER NUMBER		
,			3731	10	
			DATE MAILED: 01/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.		Applicant(s)				
,	09/627,566		GOODWIN ET AL.				
Office Action Summary	Examiner		Art Unit				
	Vy Q. Bui		3731				
The MAILING DATE of this communication appearing for Reply	pears on the cove	r sheet with the	correspondence addre	ss			
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EX	PIRE 3 MONTH	(S) FROM				
 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). 	136(a). In no event, how ly within the statutory min will apply and will expire e, cause the application t	ever, may a reply be tin nimum of thirty (30) da SIX (6) MONTHS from to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this committee (35 U.S.C. § 133).	unication.			
Status 1) ☐ Responsive to communication(s) filed on telepton te	ohone interview o	n 12/3/2003					
	action is non-fina						
,			osecution as to the me	arite ie			
closed in accordance with the practice under	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-4 and 6-9</u> is/are pending in the app							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
, <u> </u>	5) Claim(s) is/are allowed.						
· _) Claim(s) <u>1-4 and 6-9</u> is/are rejected.						
,							
,	or election require	intent.					
Application Papers							
9) The specification is objected to by the Examination							
,)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
·	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
•	xammer. Note the	s attached Office	E ACTION OF TOTAL TO	102.			
Priority under 35 U.S.C. §§ 119 and 120		5 LL O O S 440/	a) (d) a= (f)				
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documen			a)-(d) or (t).				
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
application from the International Burea				.3-			
* See the attached detailed Office action for a lis	t of the certified c	opies not receiv	ed. (a) (ta a provisional an	nlication)			
13) Acknowledgment is made of a claim for domes since a specific reference was included in the fi 37 CFR 1.78.	rst sentence of th	e specification o	or in an Application Da	ta Sheet.			
, _	a) The translation of the foreign language provisional application has been received.						
14) Acknowledgment is made of a claim for domes reference was included in the first sentence of t	tic priority under 3 he specification o	r in an Applicati	on Data Sheet. 37 CF	pecific R 1.78.			
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			y (PTO-413) Paper No(s). <u>1</u> Patent Application (PTO-15				
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)		Other:	, , , , , , , , , , , , , , , , , , , ,				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-4, 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over BANAS et al (5,749,880) in view of KOWLIGI et al (5,466,509).

As to claims 1 and 4, BANAS (Fig. 7, 7B; col. 18, lines 51-60) discloses a stent-graft implant 100 comprising stent 116 sandwiched between inner cover 112 and outer cover 114 of expanded PTFE having IND in a range from 0.1-100 microns, inner cover 112 and outer cover 114 (each of a predetermined thickness) extend substantially along the entire length of the stent 116. BANAS does not disclose the expanded PTFE having IND of more than 100 microns. However, KOWLIGI (col. 2, lines 4-7; claim 1) discloses an ePTFE graft material having IND in the range from 10-200 microns or greater than 100 microns to provide a graft material having high porosity affecting an incorporation of tissue to the graft after surgery (KOWLIGI: col. 1, lines 25-28; col. 2, lines 4-7). In view of KOWLIGI teaching, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to provide ePTFE of IND greater than 100 microns for the BANAS's inner cover 112 or outer cover 114 as this configuration of the inner and outer covers would form a graft having high porosity to affect an incorporation of

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tissue to the graft after surgery. The fact that the Applicants use the cover/graft having IND >100 microns in the present stent-graft device as claimed for a different purpose (to reduce a deployment pressure necessary to expand the stent) from KOWGILI (to provide a high porosity for the graft) does not alter the conclusion that the cover/graft as claimed would be prima facie obvious from the cover/graft combined by BANAS and KOGILI references." In re Lintner, 173 USPQ 560. In addition, even though BANAS and KOWGILI do not disclose graft material having IND of greater 100 microns to reduce a deployment pressure necessary to expand the stent-graft combination to less than 10 atmospheres, since every structural limitation as recited in the claims is included by the combination stent-graft of BANAS and KOWGILI (stent and cover/graft having IND greater than 100 microns), inherently, the stent-graft combination of BANAS and KOWGILI would require a reduced deployment pressure (less than 10 atmospheres for example).

As to claims 6 and 9, KOWGILI (Table in col. 3 shows wall thickness of 0.64 mm or about 0.026" >0.008".

2. Claims 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over BANAS and KOWGILI as applied to claims 1 and 6 above, and further in view of MYERS et al. (5,735,892).

BANAS and KOWGILI discloses substantially all structural limitations of the claimed invention, except for inner cover 112 is folded over stent 116. However, folding an inner cover over an outer surface of a stent to form an outer cover is well known in the art. For example, MYERS (Fig. 8) discloses inner cover 83 folded over the outer surface of stent 10 to form outer cover 85.

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3. Claims 3 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over BANAS and KOWGILI as applied to claims 1 and 6 above, and further in view of MYERS et al. (5,735,892).

As to claims 3 and 8, in addition to BANAS and KOWGILI, MYERS (Fig. 8) shows inner cover 83 folded over the outer surface of stent 10 to form outer cover 85. BANAS and KOWGILI do not show the second portion of the inner cover 83 folded over the first portion of the inner cover 83. Naturally, applying multiple folding layers over an object would provide extra securement between the folding layers and the object. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to fold the second portion of the inner cover 83 over the first portion of the inner cover 83 as this configuration would provide extra securement between MYERS stent 10 and graft 83. Beside the benefit of providing an extra securement between MYERS stent 10 and graft 83 as discussed above, the second folding of the second portion of the graft 83 does not appear to provide any significant improvement for the device's performance and therefore would not be considered as an significant novel feature of the instant application over the reference.

Response to the Applicants Request

In the telephone interview on 12/3/2003, the applicants attorney, Mr. RIKKERS, requested the examiner to reconsider the finality of the last Office action. The examiner expressed concern that the DAVILA reference (US Pat. 6,296,661) was applied in the

first Office action (paper # 5) mailed 12/06/2001, but only until 6/30/2003 the applicants filed the affidavit under CFR 1.131.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vy Q. Bui whose telephone number is (703) 306-1382 and whose email address is vy.bui@uspto.gov.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Milano, can be reached at (703) 308-2496. The fax number for this Unit is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist at (703) 308-0858

VQB

12/04/2003.